



```
#####
# Program: needle
# Rundate: Mon Sep 11 20:02:59 2006
# Align_format: srspair
# Report_file: /ebi/extserv/old-work/needle-20060911-20025882318727.output
#####

#=====
#
# Aligned_sequences: 2
# 1: SEQ_179
# 2: G_kaustophilus_holB
# Matrix: EBLOSUM62
# Gap_penalty: 10.0
# Extend_penalty: 0.5
#
# Length: 987
# Identity: 754/987 (76.4%)
# Similarity: 754/987 (76.4%)
# Gaps: 230/987 (23.3%)
# Score: 4576.0
#
#
#=====

SEQ_179      1 atgcgatgggaacagctagcgaaacgccagccggtggtggcgaaaatgct      50
|||||
G_kaustophilu 1 atgcgatgggaacagctagcgaaacgccagccggtggtggcgaaaatgct      50

SEQ_179      51 gcaaagcggccttggaaaaagggcggatttctcatgcgtacttggttgagg      100
|||||
G_kaustophilu 51 gcaaagcggccttggaaaaagggcggatttctcatgcgtacttggttgagg      100

SEQ_179      101 ggcagcgggggacgggcaaaaaagcgccagtttggtggtggcgaaacgt      150
|||||
G_kaustophilu 101 ggcagcgggggacgggcaaaaaagcgccagtttggtggtggcgaaacgt      150

SEQ_179      151 ttgttttgctctgtccccaatcgaggatttccccgtgtctagagtgcgcgaa      200
|||||
G_kaustophilu 151 ttgttttgctctgtccccaatcgaggatttccccgtgtctagagtgcgcgaa      200

SEQ_179      201 ctgccggcgcacatcgactccggcaaccaccctgacgtccgggtgatcggcc      250
|||||
G_kaustophilu 201 ctgccggcgcacatcgactccggcaaccaccctgacgtccgggtgatcggcc      250

SEQ_179      251 cagatggaggatcaatcaaaaaggaacaaatcgaatggctgcagcaagag      300
|||.|||||
G_kaustophilu 251 cagacggaggatcaatcaaaaaggaacaaatcgaatggctgcagcaagag      300

SEQ_179      301 ttctcgaaaacagcggtcgagtcggataaaaaaatgtacatcggttgagca      350
|||||
G_kaustophilu 301 ttctcgaaaacagcggtcgagtcggataaaaaaatgtacatcggttgagca      350

SEQ_179      351 cgccgatcaaatagcagacaagcgctgccaacagccttctgaaatTTTTGG      400
|||||
G_kaustophilu 351 cgccgatcaaatagcagacaagcgctgccaacagccttctgaaatTTTTGG      400

SEQ_179      401 aagagccgcacatccggggacgggtggcggtattgctgactgagcaataccac      450
|||||
G_kaustophilu 401 aagagccgcacatccggggacgggtggcggtattgctgactgagcaataccac      450

SEQ_179      451 cgccgtgctagggacgatcggttccccgtgtcaagtgccttcgttcgggcc      500
|||||
G_kaustophilu 451 cgccgtgctagggacgatcggttccccgtgtcaagtgccttcgttcgggcc      500
```

SEQ_179	501	gttgccgcgcgcagagctcgcccagggacttgctcaggagcacgtgccgt	550
G_kaustophilu	501	gttgccgcgcgcagagctcgctcagggacttgctcaggagcacgtgccgt	550
SEQ_179	551	tgccgttggcgtgttggtgcccatttgacaaacagcttcgaggaagca	600
G_kaustophilu	551	tgccgttggcgtgttggtgcccatttgacaaacagcttcgaggaagca	600
SEQ_179	601	ctggcgcttgccaaagatagttggtttgccgaggcgcgaaacattagtgt	650
G_kaustophilu	601	ctggcgcttgccaaagatagttggtttgccgaggcgcgaaacattagtgt	650
SEQ_179	651	acaatggtatgagatgctgggcaagccggagctgcagcttttgtttttca	700
G_kaustophilu	651	acaatggtatgagatgctgggcaagccggagctgcagcttttgtttttca	700
SEQ_179	701	tccacgaccgcttggtttccgcatttttggaaagccatcagcttgacctt	750
G_kaustophilu	701	tccacgaccgcttggtttccgcatttttggaaagccatcagcttgacctt	750
SEQ_179	751	ggacttg	757
G_kaustophilu	751	ggacttgatttgcttttatatttataccgcgatttggtgcatattcaagc	800
SEQ_179	758		757
G_kaustophilu	801	cgggcagatggacggcgtgttataccgcgatcagctggaccgcctgcaac	850
SEQ_179	758		757
G_kaustophilu	851	gatgggcgcttgcttgcccgcagcggcgattttggctggcatggaagcg	900
SEQ_179	758		757
G_kaustophilu	901	attttacaagcgaaaacgcgtttaatacaacgaatatgagcacggcggt	950
SEQ_179	758		757
G_kaustophilu	951	gcttggtgagcagctcgttcttcaattaaagcggtaa	987